

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow *BISI*
 Deliverability

Test Date:
6/22/14

API No. 15
023-21270-0000

Company Rosewood Resources, Inc.		Lease Zweygardt			Well Number 42-24	
County Cheyenne	Location SENE	Section 24	TWP 3S	RNG (EW) 41W	Acres Attributed 80	
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.		
Completion Date 10/3/2010		Plug Back Total Depth 1376'		Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1413'	Perforations 1184'	To 1214'	
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To	
Type Completion (Describe) Single (Conventional)		Type Fluid Production Dry Gas		Pump Unit or Traveling Plunger? Yes <input checked="" type="radio"/> No <input type="radio"/> flowing		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen		Gas Gravity - G _g .6
Vertical Depth(H) 1425'		Pressure Taps Flange			(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in		6-7	20 14	at 5:55	(AM) (PM) Taken	6-21
Well on Line: Started		6-22	20 14	at 6:10	(AM) (PM) Taken	6-23
						20 14 at 6:10 (AM) (PM)
						20 14 at 6:30 (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in 360 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						222	236.4				
Flow						72	86.4			360	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _v) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						10		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 0.207
(P_o)² = _____

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ :

(P _c) ² - (P _o) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _d ² 2. P _c ² - P _w ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} \right]$	Backpressure Curve Slope = "n" Assigned Standard Slope	n x LOG $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} \right]$	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 12 day of December, 20 14.

Received
KANSAS CORPORATION COMMISSION

Jamuel Martiney
For Company

Witness (if any)

FEB 25 2015

For Commission

CONSERVATION DIVISION
WICHITA, KS

Checked by

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.

I hereby request a one-year exemption from open flow testing for the Zweygardt 42-24 gas well on the grounds that said well:

(Check one)

- is a coalbed methane producer
- is cycled on plunger lift due to water
- is a source of natural gas for injection into an oil reservoir undergoing ER
- is on vacuum at the present time; KCC approval Docket No. _____
- is not capable of producing at a daily rate in excess of 250 mcf/D

I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.

Date: 12/12/14

Received
KANSAS CORPORATION COMMISSION
FEB 25 2015
CONSERVATION DIVISION
WICHITA, KS

Signature: *Janell Montney*
Title: Production Assistant

Instructions: If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

W2745
 Zweygardt 42-24
 St. Francis
 St. Francis
 Flow
 June-13^d
 FloBoss

DATE	Casing PSI	STATIC MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	75	88	11	0
6/2/2013	80	93	10	0
6/3/2013	86	99	10	0
6/4/2013	87	100	10	0
6/5/2013	71	84	10	0
6/6/2013	71	84	10	0
6/7/2013	176	189	5	9
6/8/2013	189	202	0	24
6/9/2013	202	215	0	24
6/10/2013	214	227	0	24
6/11/2013	222	235	0	24
6/12/2013	227	240	0	24
6/13/2013	229	242	0	24
6/14/2013	230	243	0	24
6/15/2013	230	243	0	24
6/16/2013	231	244	0	24
6/17/2013	231	244	0	24
6/18/2013	231	244	0	24
6/19/2013	226	239	0	24
6/20/2013	224	237	0	24
6/21/2013	222	235	0	24
6/22/2013	222	235	0	24
6/23/2013	156	169	14	5
6/24/2013	155	168	20	0
6/25/2013	149	162	20	0
6/26/2013	120	133	16	0
6/27/2013	109	122	16	0
6/28/2013	88	101	14	0
6/29/2013	87	100	12	0
6/30/2013	85	98	12	0
7/1/2013				0

Total

190

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 CONSERVATION DIVISION
 WICHITA, KS

W2745

Zweygardt 42-24

St. Francis

St. Francis

Flow

July-14

FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2014	84	97		12	0
7/2/2014	83	96		11	0
7/3/2014	82	95		11	0
7/4/2014	82	95		11	0
7/5/2014	81	94		11	0
7/6/2014	80	94		11	0
7/7/2014	79	92		11	0
7/8/2014	79	92		11	0
7/9/2014	80	93		11	0
7/10/2014	79	92		11	0
7/11/2014	82	95		10	0
7/12/2014	80	93		10	0
7/13/2014	81	94		10	0
7/14/2014	91	104		10	0
7/15/2014	71	84		10	0
7/16/2014	72	85		10	0
7/17/2014	72	85		9	0
7/18/2014	74	87		9	0
7/19/2014	71	84		9	0
7/20/2014	72	85		9	0
7/21/2014	145	158		9	0
7/22/2014	157	170		2	22
7/23/2014	96	109		12	7
7/24/2014	81	94		10	3
7/25/2014	74	87		10	4
7/26/2014	72	85		10	0
7/27/2014	72	85		10	0
7/28/2014	70	83		10	0
7/29/2014	72	85		9	0
7/30/2014	70	83		9	0
7/31/2014	75	88		9	0

Total

307

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KANSAS CORPORATION COMMISSION

FEB 25 2015

CONSERVATION DIVISION
WICHITA, KS

W2745
 Zweygardt 42-24
 St. Francis
 St. Francis
 Flow
 August-14
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2014	72	85		9	0
8/2/2014	70	83		9	0
8/3/2014	70	83		9	0
8/4/2014	71	84		9	0
8/5/2014	72	85		9	0
8/6/2014	73	86		9	0
8/7/2014	65	78		9	0
8/8/2014	73	86		9	0
8/9/2014	56	69		9	0
8/10/2014	57	70		8	0
8/11/2014	76	89		9	0
8/12/2014	68	81		8	0
8/13/2014	57	70		9	0
8/14/2014	69	82		9	0
8/15/2014	74	87		9	3
8/16/2014	73	86		9	0
8/17/2014	73	86		9	0
8/18/2014	73	86		8	0
8/19/2014	81	94		8	2
8/20/2014	73	86		8	0
8/21/2014	72	85		8	0
8/22/2014	78	91		8	0
8/23/2014	68	81		8	0
8/24/2014	69	82		8	0
8/25/2014	89	102		8	0
8/26/2014	70	83		8	0
8/27/2014	79	92		16	0
8/28/2014	116	129		8	0
8/29/2014	68	81		8	5
8/30/2014	66	79		8	0
8/31/2014	76	89		8	0

Total

271

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 WICHITA, KS